

What Is Claimed Is:

1. An electrophoresis chip comprising:

an electrical insulating substrate; and

an electrophoresis medium formed to be linear on a surface of said substrate,

wherein a region adjacent to said electrophoresis medium on said surface of said substrate is hydrophobic.

2. An electrophoresis chip comprising:

an electrical insulating substrate having a linear hydrophilic region and a hydrophobic region adjacent to said hydrophilic region on a surface of said substrate;

an electrophoresis medium formed on said hydrophilic region of said substrate by providing a gap of a predetermined length in one place in a longitudinal direction; and

a pair of electrodes connected to both ends of said electrophoresis medium in said longitudinal direction.

3. The electrophoresis chip according to claim 2, wherein said substrate is glass.

4. The electrophoresis chip according to claim 2, wherein said electrophoresis medium is a gel.

5. The electrophoresis chip according to claim 2, wherein a sample is held in said gap.

6. The electrophoresis chip according to claim 2, wherein said gap is

provided in a position close to one end from a center of said electrophoresis medium in said longitudinal direction.

7. The electrophoresis chip according to claim 6, wherein a length of a longer element medium of two element media of said electrophoresis medium divided into two parts by said gap is set in a range of 10 mm to 100 mm.

8. The electrophoresis chip according to any one of claims 1 and 2, wherein a width of said electrophoresis medium is set in a range of 0.1mm to 5mm.

9. The electrophoresis chip according to claim 1, wherein a length of said gap in said longitudinal direction is set in a range of 0.2 mm to 1 mm.

10. An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed almost in parallel on a surface and a hydrophobic region adjacent to said hydrophilic regions;

a plurality of electrophoresis media, each formed on one of said plurality of hydrophilic regions of said substrate by providing a gap of a predetermined length in one place in a longitudinal direction; and

a pair of electrodes, one being connected to one ends of said plurality of electrophoresis media and the other being connected to the other ends thereof.

11. An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed almost in parallel on a surface of said

substrate and a hydrophobic region adjacent to said hydrophilic regions;  
a plurality of electrophoresis media, each formed on one of said hydrophilic regions of said substrate by providing a gap of a predetermined length in one place in a longitudinal direction; and  
plural pairs of electrodes individually connected to both ends of said plurality of electrophoresis media.

12. An electrophoresis chip comprising:

an electrical insulating substrate having a thin and long hydrophilic region formed on a surface of said substrate and a hydrophobic region formed surrounding said hydrophilic region; and

an electrophoresis medium formed on said hydrophilic region of said substrate by providing a gap of a predetermined length in one place in a longitudinal direction,

wherein an electrophoresis lane is formed by said electrophoresis medium and sample solution supplied to said gap.

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